

STAFFORD COUNTY SCHOOL BOARD

Agenda Consideration

TOPIC: Adoption of Textbook – AP Calculus

ITEM NO: 8E

PREPARED BY: Andrea Bengier
Assistant Superintendent for
Instruction and Technology

MEETING: May 23, 2006

ACTION DATE: May 23, 2006

Christopher Quinn
Executive Director of Curriculum Services

Vickie Inge
Supervisor of Mathematics and Science

Christa Southall
Secondary Mathematics Coordinator

ACTION REQUESTED BY THE SUPERINTENDENT:

That the School Board approve adoption of AP Calculus textbook for high school AB and BC Calculus for the 2006-2007 school year at an estimated cost of \$11,500 based on an estimated enrollment of 130 students.

KEY POINTS:

Recommended textbooks and supplementary materials were evaluated on the degree to which they supported the local Stafford County Public Schools curriculum for mathematics as well as course descriptions recommended by the College Board. All textbooks were evaluated for the integration of technology in the instructional program, the attention to instructional strategies for diverse learners, and the diversity of student assessment. All materials were evaluated on the sequencing of content, the readability of the text, the attention to concept development and the connections to real-life situations.

One textbook will serve the needs of both courses as AB Calculus is the entry-level course and BC Calculus takes students deeper and further into the study of calculus. AB Calculus addresses content that is equivalent to one semester of college calculus, while BC Calculus covers content that is the equivalent of two semesters of college calculus and requires students to apply what they have learned in AB to the study of polar curves, parametric equations, vectors and slope fields.

SCHOOL BOARD GOAL:

Goal 1: Provide educational excellence through instruction that establishes high expectations for all students yet recognizes the unique needs of each learner.

Goal 2: Integrate technology in support of all instruction.

FUNDING SOURCE: 040 6110 641 6023 TBK/SR \$11,500

AUTHORIZATION REFERENCE: School Board Policy 6-46